

AMENDMENT AND RESPONSE

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Serial No.: 09/865,216

Filing Date: 5/24/2001

Attorney Docket No. 100.211US01

Title: IMPROVEMENTS TO DIGITAL SUBSCRIBER LINE SERVICES

REMARKS

Applicant has reviewed the Office Action mailed on September 6, 2005 as well as the art cited. Claims 1-11, 28-38, 43 and 44 are pending in this application.

Rejections Under 35 U.S.C. § 103

Claims 1-6, 8-11, 28-33, 35-38, 43 and 44 were rejected under 35 USC § 103(a) as being unpatentable over Crowe et al. (U.S. Patent No. 6,928,068) in view of Rawson et al. (U.S. Patent No. 6,028,867). Applicant respectfully traverses the rejection.

Claim 1 is reproduced below:

A system for extending the effective distance of digital subscriber line service, the system comprising:

- a central office terminal, the central office terminal including:

- a data interface; and

- a plurality of line units;

- at least one communication link, coupled to one of the plurality of line units, that carries signals using digital subscriber line service;

- at least one remote access multiplexer, coupled to the at least one communication link, wherein the at least one remote access multiplexer includes a plurality of ports that are adapted to provide digital subscriber line service;

- the remote access multiplexer adapted to multiplex signals between the plurality of ports and the at least one communication link; and

- wherein the at least one remote access multiplexer is located at a distance from the central office terminal so as to provide digital subscriber line service to user terminals that are located more than 12 kilofeet from the central office terminal.

The Examiner asserts that Crowe teaches a communication link (D-V + Data line) that "carries signals using digital subscriber line service." Applicant respectfully traverses this assertion. There is nothing in Crowe or Rawson, alone or in combination, that teaches or suggests that the identified link uses a DSL service to carry signals over the identified link. Therefore, claim 1 is not obvious in light of the cited references.

Claims 2-6, and 8-11 depend directly from claim 1, and are thus also allowable at least for the reasons identified above with respect to claim 1.

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Claim 28 is reproduced below:

A system for extending the effective distance of digital subscriber line service, the system comprising:

a central office terminal, the central office terminal including:

a data interface, and

a plurality of line units;

at least one communication link, coupled to one of the plurality of line units, that carries signals using digital subscriber line service;

at least one remote access multiplexer, coupled to the at least one communication link, wherein the at least one remote access multiplexer includes:

a first port, adapted to be coupled to the at least one communication link,

a plurality of subscriber ports, adapted to be coupled to a plurality of communication links, and

at least one multiplexer unit, coupled to the first port and the plurality of subscriber ports, the multiplexer unit adapted to multiplex signals between the first port and the plurality of subscriber ports; and

wherein the at least one remote access multiplexer is located at a distance from the central office terminal so as to provide digital subscriber line service to user terminals that are located more than 12 kilofeet from the central office terminal.

The Examiner asserts that Crowe teaches a communication link (D-V + Data line) that "carries signals using digital subscriber line service." Applicant respectfully traverses this assertion.

There is nothing in Crowe or Rawson, alone or in combination, that teaches or suggests that the identified link uses a DSL service to carry signals over the identified link. Therefore, claim 28 is not obvious in light of the cited references.

Claims 29-33 and 35-38 depend directly from claim 28, and thus are also allowable at least for the reasons identified above with respect to claim 28.

Claim 43 is reproduced below:

A system for extending the effective distance of asymmetric digital subscriber line service, the system comprising:

a central office terminal, the central office terminal including:

a data interface;

a telephony interface; and

a plurality of line units;

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at least one communication link, coupled to one of the plurality of line units, that carries signals using single pair high speed digital subscriber line service;

at least one remote access multiplexer, coupled to the at least one communication link, wherein the at least one remote access multiplexer includes a plurality of ports that are adapted to provide asymmetric digital subscriber line service;

the remote access multiplexer adapted to multiplex signals between the plurality of ports and the at least one communication link; and

wherein the at least one remote access multiplexer is located at a distance from the central office terminal so as to provide digital subscriber line service to user terminals that are located more than 12 kilofeet from the central office terminal.

The Examiner asserts that Crowe teaches a communication link (D-V + Data line) that "carries signals using single pair high speed digital subscriber line service." Applicant respectfully traverses this assertion. There is nothing in Crowe or Rawson, alone or in combination, that teaches or suggests that the identified link uses a single pair high speed DSL service to carry signals over the identified link. Therefore, claim 43 is not obvious in light of the cited references.

Claim 44 depends directly from claim 43, and thus is also allowable at least for the reasons identified above with respect to claim 43.

Claims 7 and 34 were rejected under 35 USC § 103(a) as being unpatentable over Crowe et al. (U.S. Patent No. 6,928,068) in view of Rawson et al. (U.S. Patent No. 6,028,867) as applied to claims 1 and 28 and further in view of Gerszberg (U.S. Patent No. 5,970,473). Applicant respectfully traverses the rejection.

Claims 7 and 34 depend from claims 1 and 28, respectively, and thus, are allowable at least for the reasons identified above with respect to claims 1 and 28, respectively.

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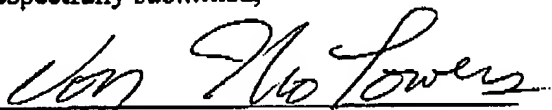
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CONCLUSION

Applicant respectfully submits that claims 1-11, 28-38, 43 and 44 are in condition for allowance and notification to that effect is earnestly requested. If necessary, please charge any additional fees or credit overpayments to Deposit Account No. 502432.

If the Examiner has any questions or concerns regarding this application, please contact the undersigned at 612-455-1680.

Respectfully submitted,

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